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IS 12329 (1988): Self-centring Bone Holding Forceps [MHD 17: Health Informatics]

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IS : 12329 - 1988

(Reaffirmed 2006)

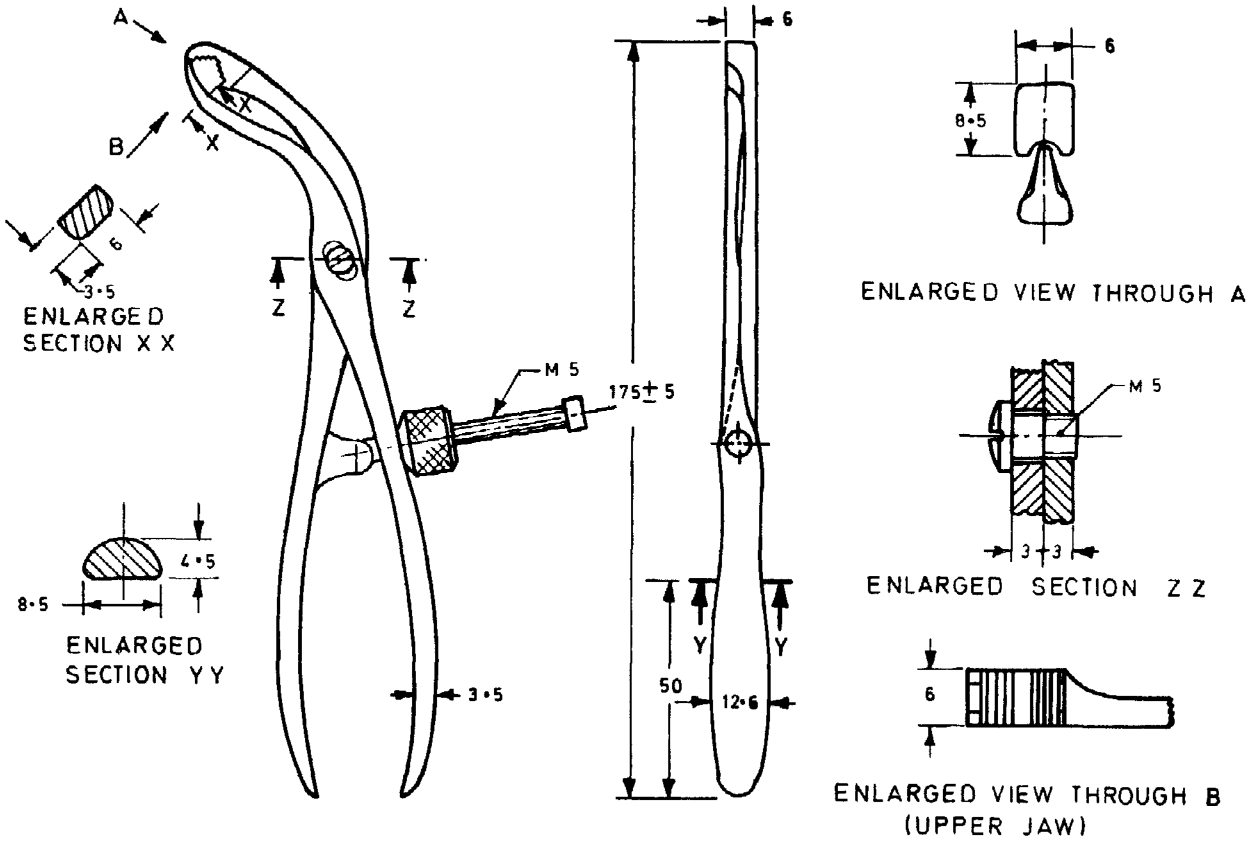
Indian Standard

SPECIFICATION FOR SELF-CENTRING BONE HOLDING FORCEPS

Veterinary Surgery Instruments Sectional Committee, CPDC 33 [Ref : Doc : CPDC 33 (2017)]

1. Scope — This standard covers requirements for self-centring bone holding forceps used for veterinary surgery.

2. Shape and Dimensions — Shall conform to Fig. 1.



All dimensions in millimetres.

FIG. 1 SELF-CENTRING BONE HOLDING FORCEPS

2.1 The tolerances on dimensions of working end shall conform to 'fine' class of deviation and the tolerance for remaining dimensions shall conform to 'medium' class of deviation of IS : 2102 (Part 1)-1980 'General tolerances for dimensions and form and position: Part 1 General tolerances for linear and angular dimensions (*second revision*)'.

3. Materials

3.1 *Arms* — Stainless steel conforming to designation 30 Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

3.2 *Nut and Screw* — Stainless steel conforming to designation 20 Cr13 of IS : 6603-1972.

4. Requirements

4.1 The instrument shall be free from residual scales, acids, grease and grinding and polishing materials. Compliance with these requirements shall be checked under 2 × magnification.

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4.2 The surface finish shall be mirror polished. The instrument should be adequately ground to remove all surface imperfections and polished to remove grinding marks, resulting in a mirror finish. The mirror finish should be effected by an appropriate procedure, such as polishing, brushing, electropolishing and mirror buffing.

4.3 The forceps shall be free from burrs, pits, crevices and cracks when examined under 10 × magnification.

4.4 *Passivation and Final Treatment* — The instruments shall be treated by a suitable passivation process.

Note — Examples of methods of passivation are by electropolishing or by treating with 10 percent (v/v) nitric acid solution for not less than 30 min at a temperature of not less than 10°C and not exceeding 60°C. The instruments should then be rinsed in water and dried in hot air.

4.5 The teeth on the jaws shall be well formed and clean.

4.6 The two arms shall move freely and smoothly at the joint without any undue play.

5. Hardness — The forceps shall be uniformly hardened and tempered to give a hardness of 380 to 420 HV.

6. Tests

6.1 *Corrosion Resistance Test* — The forceps shall be tested in accordance with IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'. The forceps shall show no sign of corrosion after the test.

6.2 *Performance Test* — A piece of hardwood of minimum thickness 12 mm shall be held in the jaws of the forceps. A compressive force of 1 000 N (100 kgf approx) shall be applied to the forceps at the point of maximum convexity. The force should be allowed to act for two minutes. On completion of the test, the forceps shall not show any sign of damage or permanent set.

7. Marking — The forceps shall be marked with the manufacturer's name, initials or recognized trade-mark.

7.1 *Standard Mark* — Details available with the Bureau of Indian Standards.

8. Packing — As agreed to between the purchaser and the supplier.

9. Sampling — Unless otherwise agreed to between the purchaser and the supplier, the sampling procedure given in IS : 2500 (Part 1)-1973 'Sampling inspection tables : Part 1 Inspection by attributes and by count of defects', shall be followed.

9.1 *Lot* — All the forceps of same size, shape and belonging to the same batch of manufacture shall be grouped together to constitute a lot.

9.2 For dimensions and visual examination given in **2** and **4**, a single sampling plan with Inspection Level IV and AQL 4 percent given in Tables 1 and 2 of IS : 2500 (Part 1)-1973 shall be followed.

9.3 For requirements given in **5** and **6**, a single sampling plan with Inspection Level I and AQL 1 percent given in Tables 1 and 2 of IS : 2500 (Part 1)-1973 shall be followed.

EXPLANATORY NOTE

While preparing this standard, assistance has been derived from document No. IND/GS/MED 380(d) issued by the Ministry of Defence, New Delhi.

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